

# Ocotillo ENVIRONMENTAL

Dirt Work • On-Site Remediation • Soil Testing • Excavation

March 8, 2011

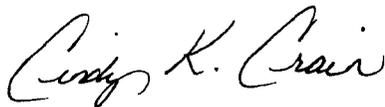
Mr. Mike Bratcher  
Oil Conservation Division  
New Mexico Energy, Minerals and Natural Resources Department  
1301 W. Grand Avenue  
Artesia, New Mexico 88210

**Re: Spill Remediation Report  
Devon Energy,  
Ore Ida 14 Federal #12,  
Unit Letter K (NE/4, SW/4), Section 14, Township 24 South, Range 29 East,  
Eddy County, New Mexico (Latitude: N 32.21306°, Longitude: W 103.95565°)  
2RP # 417**

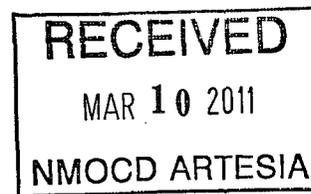
Dear Mr. Bratcher:

Please find enclosed a copy of the above-referenced report. The report is submitted on behalf of Devon Energy, and presents the final results of spill remediation conducted by Ocotillo Environmental, LLC. Please call Jerry Mathews at (575) 748-5234 or myself at (575) 441-7244 if you have questions.

Sincerely,  
*Ocotillo Environmental, LLC*



Cindy K. Crain, P.G.  
Environmental Manager



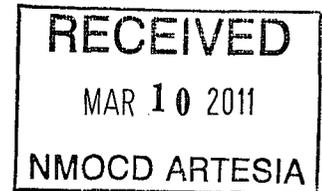
cc: Jerry Mathews – Devon  
Jim Amos - BLM

# Ocotillo ENVIRONMENTAL

Dirt Work • On-Site Remediation • Soil Testing • Excavation

March 4, 2011

Mr. Mike Bratcher  
Oil Conservation Division  
New Mexico Energy, Minerals and Natural Resources Department  
1301 W. Grand Avenue  
Artesia, New Mexico 88210



**Re: Spill Remediation Report  
Devon Energy,  
Ore Ida 14 Federal #12,  
Unit Letter K (NE/4, SW/4), Section 14, Township 24 South, Range 29 East,  
Eddy County, New Mexico (Latitude: N 32.21306°, Longitude: W 103.95565°)  
2RP # 417**

Dear Mr. Bratcher:

Devon Energy Production Company, L.P. (Devon) has retained Ocotillo Environmental, LLC (Ocotillo) to remediate impacts to soil from a spill that occurred at the Ore Ida 14 Federal #12 (Site) on May 27, 2010. Approximately 15 barrels of produced water were spilled from a flow line located in the northeast quarter (NE/4) of the southwest quarter (SW/4), Section 14, Township 24 South, Range 29 East, Eddy County, New Mexico, and no fluid was recovered from the site. A C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on May 28, 2010, a copy of which is attached. Figure 1 shows the site location. Figure 2 shows the spill area.

Based on published literature (1961), well records of the New Mexico State Engineer (NMSE), and well records from the United States Geological Service (USGS) database, groundwater occurs at approximately 90 feet below ground surface (bgs) at the nearest well. No domestic water wells are located within 1,000 feet of the Site. The NMOCD has established RRALs for benzene, total BTEX and TPH resulting from spills of natural gas liquids ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"). Remediation levels for benzene, total BTEX and TPH were calculated using the following NMOCD criteria:

Criteria	Result	Ranking Score
Depth-to-Groundwater	50-99 Feet	10
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Horizontal Feet	0
		<b>Total: 10</b>

The following RRALs have been assigned based on NMOCD criteria:

**Benzene** 10 mg/kg  
**Total BTEX** 50 mg/kg  
**TPH** 1,000 mg/kg

Mr. Mike Bratcher  
Page 2  
March 4, 2011

A Remediation Workplan was submitted to the NMOCD via email on September 14, 2010 that detailed the collection of samples from two (2) locations (TH-1 and TH-2) at the spill area. In that Workplan, Devon proposed to “conduct excavation of the chloride impacted soil in the vicinity of sample point TH-2 to a depth of approximately eight (8) to nine (9) feet bgs. Horizontal delineation will be determined by laboratory analysis of samples collected during excavation. All excavated soil will be hauled to an NMOCD approved disposal facility.” The Workplan also stated that “upon obtaining laboratory chloride results less than 1,000 mg/kg, a 20 mil plastic liner will be installed at the eight (8) to nine (9) foot depth, and the excavated area will be backfilled with clean soil.”

The Remediation Workplan was verbally approved on September 15, 2010. Figure 2 shows the sample point TH-1 and TH-2 locations.

### **Remediation Activities**

From September 21 to October 13, 2010, Ocotillo excavated soil from the spill area and hauled to an NMOCD approved disposal facility. Soil samples were collected from the sides of the excavated area and submitted to Cardinal Laboratories (Cardinal) of Hobbs, New Mexico for chloride analyses. The spill area in the vicinity of initial soil sample TH-2 was excavated to a depth of 8.5 feet bgs until side wall samples reported chloride concentrations less than 1,000 mg/kg. A 20 mil plastic liner was installed at the 8.5 foot depth, and the area was backfilled with clean soil. The area in the vicinity of initial soil sample TH-1 was excavated to a depth of one (1) foot bgs until side wall samples reported a chloride concentration less than 1,000 mg/kg, and that area was also backfilled with clean soil. Figure 2 shows the soil sample locations and respective chloride concentrations. Table 1 presents a summary of the laboratory analyses of soil samples. Appendix A provides laboratory data and chain of custody documentation. Appendix B provides photographic documentation of the remediation activities.

Devon respectfully requests that the Ore Ida 14 Federal #12 site be closed by the NMOCD. A final C141 form is attached as the last page of this report.

If you have any questions or need additional information, please call Mr. Jerry Mathews at (575) 748-5234, or myself at (575) 441-7244. We may also be reached by email at [Jerry.Mathews@dvn.com](mailto:Jerry.Mathews@dvn.com) or [Cindy.Crain@gmail.com](mailto:Cindy.Crain@gmail.com).

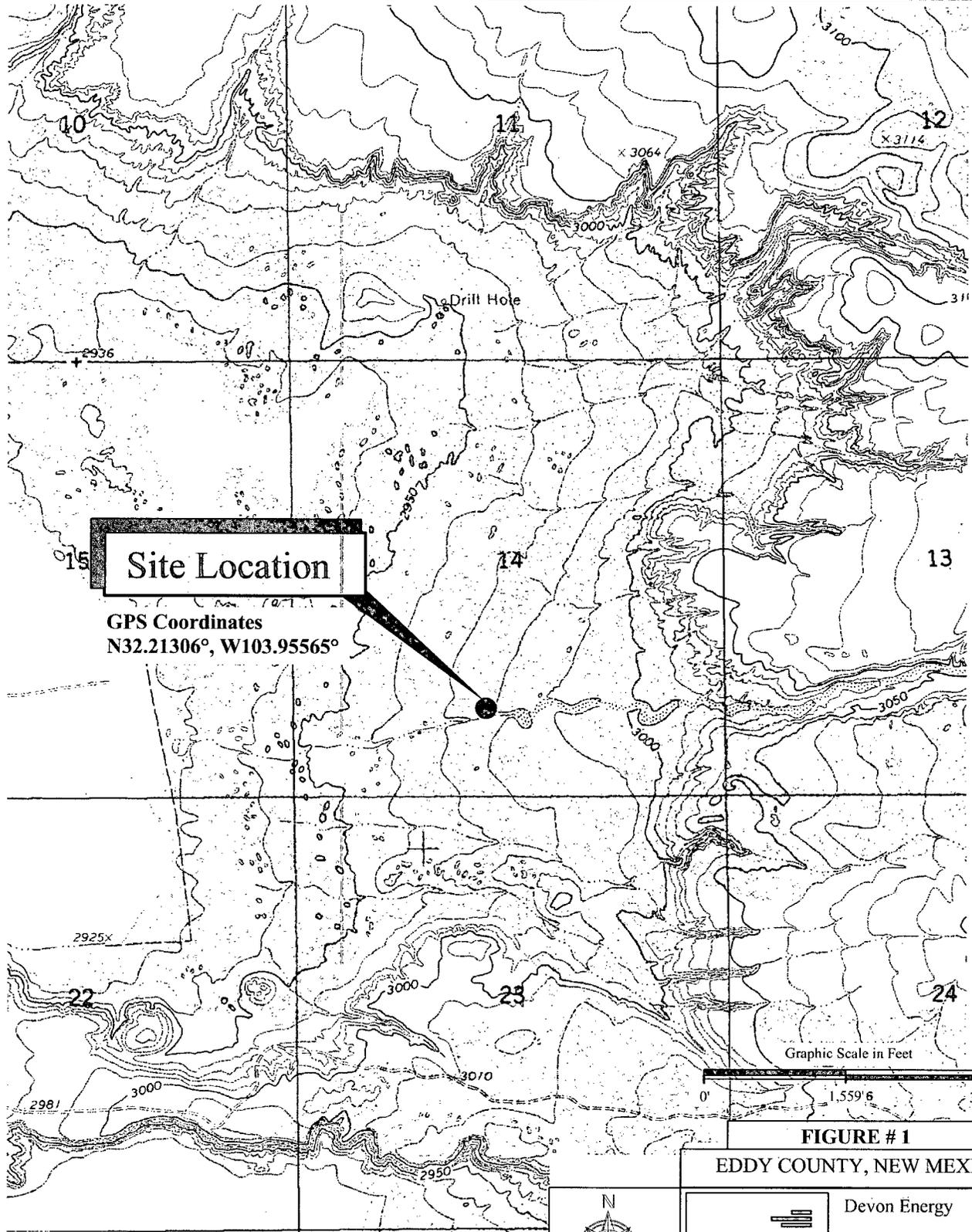
Sincerely,  
***Ocotillo Environmental, LLC***



Cindy K. Crain, P.G.  
Environmental Manager

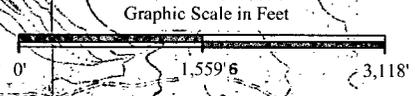
cc: Jim Amos, BLM  
Jerry Mathews, Devon

## FIGURES



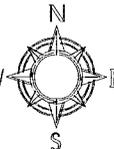
**Site Location**

GPS Coordinates  
N32.21306°, W103.95565°



**FIGURE # 1**

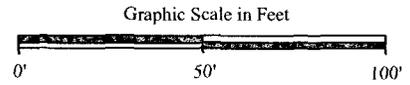
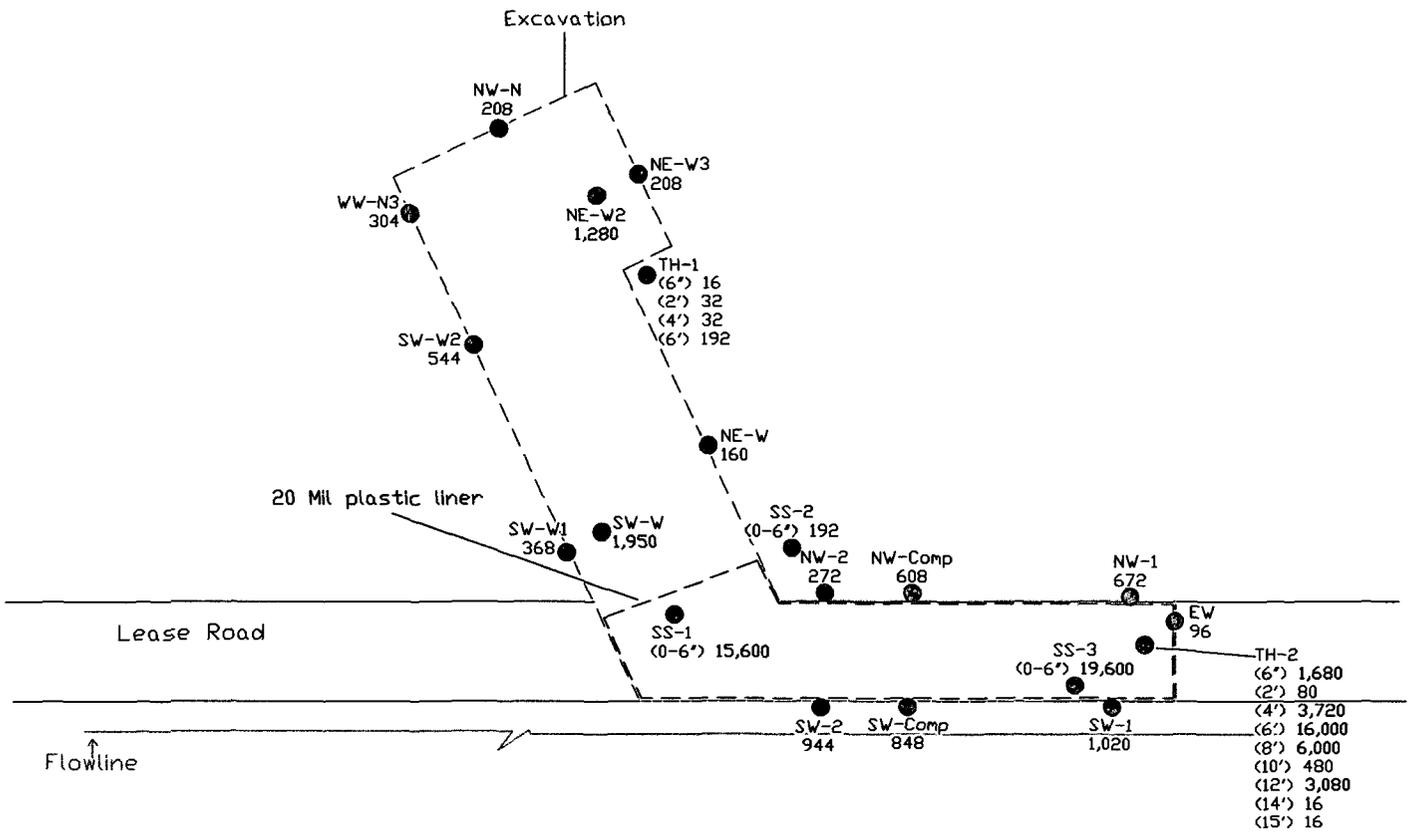
EDDY COUNTY, NEW MEXICO	
	Devon Energy
	Ore Ida 14 Federal #12
	UL - K, Sec. 14, T24S, R29E
<b>Site Location</b>	
	<b>ENVIRONMENTAL</b>

	
DATE:	11-18-10
NAME:	JTC
PROJECT NO.:	0610-028C



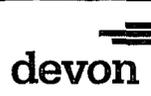
er Tank  
ravel Pit

⊗ Wellhead  
N 32.21306°, W 103.95565°



**FIGURE # 2**

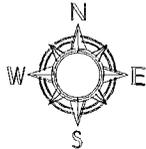
EDDY COUNTY, NEW MEXICO



Devon Energy  
Ore Ida 14 Federal #12  
UL - K, Sec. 14, T24S, R29E

Site Drawing with Soil Sample Locations

Ocotillo ENVIRONMENTAL



DATE: 11-18-10  
NAME: JTC  
PROJECT NO.: 0610-028C

**LEGEND**

●  
SS-1  
(0-6') 15,600

Soil Sample Location with  
Depth (feet bgs) and  
Chloride Concentration  
(mg/kg)

## TABLE

**Table 1:**  
**Summary of Laboratory Analysis of Soil Samples from Excavation**  
**Devon Energy, Ore Ida 14 Federal #12**  
**Unit Letter K, Section 14, Township 24 South, Range 29 East**  
**Eddy County, New Mexico**

Sample Date	Sample Name	Sample Depth (feet BGS)	Chloride (mg/kg)	Soil Status
WQCC Standard			1,000	
6/10/10	SS-1	0-6"	15,600	Excavated
6/10/10	SS-2	0-6"	192	Excavated
6/10/10	SS-3	0-6"	19,600	Excavated
9/8/10	TH-1	0-6"	16	In Situ
9/8/10	TH-1	2	32	In Situ
9/8/10	TH-1	4	32	In Situ
9/8/10	TH-1	6	192	In Situ
9/8/10	TH-2	0-6"	1,680	Excavated
9/8/10	TH-2	2	80	Excavated
9/8/10	TH-2	4	3,720	Excavated
9/8/10	TH-2	6	16,000	Excavated
9/8/10	TH-2	8	6,000	Excavated
9/8/10	TH-2	10	480	In Situ
9/8/10	TH-2	12	3,080	In Situ
9/8/10	TH-2	14	16	In Situ
9/8/10	TH-2	15	16	In Situ
9/21/10	NW Comp	(side wall)	608	In Situ
9/21/10	SW Comp	(side wall)	848	In Situ
9/23/10	E W	(side wall)	96	In Situ
9/23/10	NW-1	(side wall)	672	In Situ
9/23/10	NW-2	(side wall)	272	In Situ
9/23/10	SW-1	(side wall)	1,020	In Situ
9/23/10	SW-2	(side wall)	944	In Situ
9/23/10	NE-W	(side wall)	160	In Situ
9/23/10	SW-W	(side wall)	1,950	Excavated
9/29/10	SW-W	(side wall)	368	In Situ
9/29/10	SW-1-2	(side wall)	544	In Situ
10/11/10	NE W-2	(side wall)	1,280	Excavated
10/13/10	NE W-3	(side wall)	208	In Situ
10/11/10	NW N	(side wall)	208	In Situ
10/11/10	WW N-3	(side wall)	304	In Situ

Notes: *All analyses conducted by Cardinal Laboratories, Hobbs, NM*  
1. BGS: Below Ground Surface  
2. mg/kg: Milligrams per kilogram

**APPENDIX A**

**LABORATORY DATA AND CHAIN OF CUSTODY DOCUMENTATION**



**ARDINAL  
LABORATORIES**

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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June 15, 2010

Cindy Crain  
Ocotillo Environmental  
P.O. Box 1816  
Hobbs, NM 88241

Re: ORE IDA 14 #1 A Battery

Enclosed are the results of analyses for sample number H20099, received by the laboratory on 06/11/10 at 2:20 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene  
Laboratory Director







September 10, 2010

Cindy Crain  
Ocotillo Environmental, LLC  
P.O. Box 1816  
Hobbs, NM 88241

RE: ORE IDA 14, FED #12

Enclosed are the results of analyses for samples received by the laboratory on 09/09/10 7:53.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

Ocotillo Environmental, LLC  
 Cindy Crain  
 P.O. Box 1816  
 Hobbs NM, 88241  
 Fax To: (432) 272-0304

Received:	09/09/2010	Sampling Date:	09/08/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	ORE IDA 14, FED #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	10 MILES NE OF MALAGA, NM		

**Sample ID: TH1 @ 6" (H020818-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/09/2010	ND	432	108	400	0.00		

**Sample ID: TH1 @ 2' (H020818-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/09/2010	ND	432	108	400	0.00		

**Sample ID: TH1 @ 4' (H020818-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/09/2010	ND	432	108	400	0.00		

**Sample ID: TH1 @ 6' (H020818-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/09/2010	ND	432	108	400	0.00		

**Sample ID: TH2 @ 6" (H020818-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	09/09/2010	ND	432	108	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Ocotillo Environmental, LLC  
 Cindy Crain  
 P.O. Box 1816  
 Hobbs NM, 88241  
 Fax To: (432) 272-0304

Received:	09/09/2010	Sampling Date:	09/08/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	ORE IDA 14, FED #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	10 MILES NE OF MALAGA, NM		

**Sample ID: TH2 @ 2' (H020818-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/09/2010	ND	432	108	400	0.00		

**Sample ID: TH2 @ 4' (H020818-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3720	16.0	09/09/2010	ND	432	108	400	0.00		

**Sample ID: TH2 @ 6' (H020818-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16000	16.0	09/09/2010	ND	432	108	400	0.00		

**Sample ID: TH2 @ 8' (H020818-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	09/09/2010	ND	432	108	400	0.00		

**Sample ID: TH2 @ 10' (H020818-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	09/09/2010	ND	432	108	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celestine D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Ocotillo Environmental, LLC  
 Cindy Crain  
 P.O. Box 1816  
 Hobbs NM, 88241  
 Fax To: (432) 272-0304

Received: 09/09/2010  
 Reported: 09/10/2010  
 Project Name: ORE IDA 14, FED #12  
 Project Number: NONE GIVEN  
 Project Location: 10 MILES NE OF MALAGA, NM

Sampling Date: 09/08/2010  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: TH2 @ 12' (H020818-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	09/09/2010	ND	432	108	400	0.00		

**Sample ID: TH2 @ 14' (H020818-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/09/2010	ND	432	108	400	0.00		

**Sample ID: TH2 @ 15' (H020818-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/09/2010	ND	432	108	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PAGE 1 OF 2

Company Name: <b>DEVON</b>	<b>BILL TO</b>	<b>ANALYSIS REQUEST</b>											
Project Manager: <b>CINDY CRAIN</b>	P.O. #:												
Address: <b>2125 FRENCH DRIVE, P.O. BOX 1816</b>	Company: <b>Ocotillo</b>												
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>	Attn:												
Phone #: <b>575-441-7244</b> Fax #:	Address:												
Project #: Project Owner: <b>DCP</b>	City:												
Project Name: <b>OREIDA 14, FED. #22</b>	State: Zip:												
Project Location: <b>10 MILES NE OF MALAGA, NM</b>	Phone #:												
Sampler Name: <b>DON GREEN</b>	Fax #:												

Lab I.D.	Sample I.D.	GIRAB OR (COMP. # CONTAINERS)	MATRIX					PRESERV.			SAMPLING		DATE	TIME	CK
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER				
H20818-1	TH1 @ 6"	61			✓							9/8/10	14:30	✓	
2	TH1 @ 2'	61			✓							"	"	✓	
3	TH1 @ 4'	61			✓							"	"	✓	
4	TH1 @ 6'	61			✓							"	"	✓	
5	TH2 @ 6"	61			✓							9/8/10	15:30	✓	
6	TH2 @ 2'	61			✓							"	"	✓	
7	TH2 @ 4'	61			✓							"	"	✓	
8	TH2 @ 6'	61			✓							"	"	✓	
9	TH2 @ 8'	61			✓							"	"	✓	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. As to all other matters including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for the general or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates, or suppliers, or third parties, or for the performance of services hereunder, by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <b>Don Green</b>	Date: <b>9/9/10</b>	Received By: <b>Jodi Hanson</b>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Date:	Time: <b>7:53</b>	REMARKS: <b>RUSH</b>	
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: <b>JH</b>	(Initials)		

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 676-393-2476

#26



**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PAGE 2 OF 2

Company Name: <del>Don Green</del> <b>DEVON</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																	
Project Manager: <b>CINDY CARIN</b>		P.O. #:																			
Address: <b>2125 FRENCH DRIVE, P.O. Box 1816</b>		Company: <b>Ocotillo</b>																			
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>		Attn:																			
Phone #: <b>575-44-7244</b> Fax #:		Address:																			
Project #:		Project Owner:																			
Project Name: <b>ORE IDA 14, Fed. #12</b>		City:																			
Project Location: <b>10 MILE NE OF MALAGA, N.M.</b>		State: Zip:																			
Sampler Name: <b>DON GREEN</b>		Phone #:																			
Fax #:																					
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	CL							
H20818-10	TH2@10'	G	1			✓						9/8/10	15:30	✓							
11	TH2@12'	G	1			✓						"	"	✓							
12	TH2@14'	G	1			✓						"	"	✓							
13	TH2@15'	G	1			✓						"	"	✓							

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or suppliers, either directly or indirectly, to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <b>Don Green</b>	Date: <b>9/9/10</b>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <b>7:53</b>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By: <b>Jodi Newson</b>	REMARKS: <b>RUSH</b>	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<b>JN</b>		
	<b>19.5°C</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No		

#26



September 21, 2010

Cindy Crain  
Ocotillo Environmental, LLC  
P.O. Box 1816  
Hobbs, NM 88241

RE: ORE IDA 14, FED #12

Enclosed are the results of analyses for samples received by the laboratory on 09/21/10 11:29.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

Ocotillo Environmental, LLC  
 Cindy Crain  
 P.O. Box 1816  
 Hobbs NM, 88241  
 Fax To: (432) 272-0304

Received:	09/21/2010	Sampling Date:	09/21/2010
Reported:	09/21/2010	Sampling Type:	Soil
Project Name:	ORE IDA 14, FED #12	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	10 MILES NE OF MALAGA, NM		

**Sample ID: NW - COMP. (H020890-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	09/21/2010	ND	448	112	400	3.64		

**Sample ID: SW - COMP. (H020890-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	09/21/2010	ND	448	112	400	3.64		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report





# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PAGE 1 OF 1

Company Name: <b>DEVON ENERGY</b>		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																
Project Manager: <b>CINDY CRAIN</b>		P.O. #:																				
Address: <b>2125 FRENCH DRIVE, P.O. BOX 1816</b>		Company:																				
City: <b>Hobbs</b> State: <b>N.M.</b> Zip: <b>88240</b>		Attn:																				
Phone #: <b>575-441-7244</b> Fax #:		Address:																				
Project #: Project Owner:		City:																				
Project Name: <b>OREIDA 14, FED. #12</b>		State: Zip:																				
Project Location: <b>NE OF MALAGA, N.M. (10 MILES)</b>		Phone #:																				
Sampler Name: <b>DON GREEN</b>		Fax #:																				
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(GRAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
H20890-1	NW-Comp.	C1			✓						9/21/10	8:00	CL									
2	SW-Comp	C1			✓																	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <b>Don Green</b>	Date: <b>9/21/10</b> Time: <b>11:29</b>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By: <b>Jodi Benson</b>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <b>JH</b>	REMARKS: <b>Rush</b> <b>441-0405 Don</b>	

FORM-006  
Revision 1.0

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#26



September 27, 2010

Cindy Crain

Ocotillo Environmental, LLC

P.O. Box 1816

Hobbs, NM 88241

RE: ORE IDA 14, FED #12

Enclosed are the results of analyses for samples received by the laboratory on 09/23/10 13:01.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

Ocotillo Environmental, LLC  
 Cindy Crain  
 P.O. Box 1816  
 Hobbs NM, 88241  
 Fax To: (432) 272-0304

Received:	09/23/2010	Sampling Date:	09/23/2010
Reported:	09/27/2010	Sampling Type:	Soil
Project Name:	ORE IDA 14, FED #12	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	10 MILES NE OF MALAGA, NM		

**Sample ID: E W (H020910-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/27/2010	ND	432	108	400	3.77		

**Sample ID: NW - 1 (H020910-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	09/27/2010	ND	432	108	400	3.77		

**Sample ID: NW - 2 (H020910-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/27/2010	ND	432	108	400	3.77		

**Sample ID: SW - 1 (H020910-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	09/27/2010	ND	432	108	400	3.77		

**Sample ID: SW - 2 (H020910-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	09/27/2010	ND	432	108	400	3.77		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Ocotillo Environmental, LLC  
 Cindy Crain  
 P.O. Box 1816  
 Hobbs NM, 88241  
 Fax To: (432) 272-0304

Received:	09/23/2010	Sampling Date:	09/23/2010
Reported:	09/27/2010	Sampling Type:	Soil
Project Name:	ORE IDA 14, FED #12	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	10 MILES NE OF MALAGA, NM		

**Sample ID: NE - W (H020910-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/27/2010	ND	432	108	400	3.77		

**Sample ID: SW - W (H020910-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1950	16.0	09/27/2010	ND	432	108	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: <b>DEVON ENERGY</b>		<b>BILL TO</b>			<b>ANALYSIS REQUEST</b>									
Project Manager: <b>CINDY CRAIN</b>		P.O. #:												
Address: <b>2125 FRENCH DRIVE, P.O. Box 1816</b>		Company: <b>Ocotillo</b>												
City: <b>Hobbs</b> State: <b>N.M.</b> Zip: <b>88240</b>		Attn:												
Phone #: <b>575-441-7244</b> Fax #:		Address:												
Project #:		City:												
Project Name: <b>DREIDA 14, FED. #12</b>		State: Zip:												
Project Location: <b>10 mi. NE of MALAGA, N.M.</b>		Phone #:												
Sampler Name: <b>Don Green</b>		Fax #:												

Lab I.D.	Sample I.D.	(G/RAB OR C/O)MP	# CONTAINERS	MATRIX					PRESERV			SAMPLING		CL
				GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	
H20910-1	EW	C	1			✓			✓			9/23/10	9:45	✓
2	NW-1	C	1			✓			✓			"	"	✓
3	NW-2	C	1			✓			✓			"	"	✓
4	SW-1	C	1			✓			✓			"	"	✓
5	SW-2	C	1			✓			✓			"	"	✓
6	NE-W	C	1			✓			✓			"	"	✓
7	SW-W	C	1			✓			✓			"	"	✓

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. No liability shall be assumed for negligence and any other cause whatsoever that be deemed waived unless specifically stated and received by Cardinal within 90 days after completion of the applicable service. This is not intended to constitute an offer of insurance or any other financial product. Business interruption, loss of use, or loss of profit, incurred by client, its subsidiaries or other entities, shall be the responsibility of the client. Cardinal's performance of services requested by Client, regardless of cost for such services, is based upon any of the above stated terms or conditions.

Relinquished By: <b>Don Green</b>	Date: <b>9/23/10</b>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: <b>13:01</b>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Relinquished By:	Date:	Received By: <b>Jodi Merson</b>	REMARKS:
	Time:		
Delivered By: (Circle One)	Sampler - UPS - Bus - Other:	Sample Condition: <b>5°C</b> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <b>JM</b>

FORM-006  
Revision 1.0

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#26



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

September 29, 2010

Cindy Crain  
Ocotillo Environmental, LLC  
P.O. Box 1816  
Hobbs, NM 88241

RE: ORE IDA 14, FED #12

Enclosed are the results of analyses for samples received by the laboratory on 09/29/10 11:56.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes  
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes  
Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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Method EPA 552.2 Haloacetic Acids (HAA-5)  
Method EPA 524.2 Total Trihalomethanes (TTHM)  
Method EPA 524.4 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager

RECEIVED

**Analytical Results For:**

Ocotillo Environmental, LLC  
 Cindy Crain  
 P.O. Box 1816  
 Hobbs NM, 88241  
 Fax To: (432) 272-0304

Received: 09/29/2010  
 Reported: 09/29/2010  
 Project Name: ORE IDA 14, FED #12  
 Project Number: 3 IN POLY LINE  
 Project Location: 10 MILES NE OF MALAGA, NM

Sampling Date: 09/29/2010  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SW - W 1 (H020945-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	09/29/2010	ND	400	100	400	0.00		

**Sample ID: SW - 1 - 2 (H020945-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	09/29/2010	ND	400	100	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**→ CARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

*Page 1 of 1*

Company Name: <i>DEVON ENERGY</i>		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <i>CINDY CRAIN</i>		P.O. #:															
Address: <i>2125 FRENCH DRIVE, P.O. Box 1816</i>		Company:															
City: <i>Hobbs</i> State: <i>N.M.</i> Zip: <i>88240</i>		Attn:															
Phone #: <i>575-441-7244</i> Fax #:		Address:															
Project #: <i>3" Poly Line</i> Project Owner:		City:															
Project Name: <i>OREIDA 14, FED. # 12</i>		State: Zip:															
Project Location: <i>10 MILES NE OF MALAGA, N.M.</i>		Phone #:															
Supplier Name: <i>Don Green</i>		Fax #:															
Lab I.D.	Sample I.D.	GIRAP OR (COMF. #) CONTAINERS	MATRIX					PRESERV.		SAMPLING		CL					
			GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE		TIME				
<i>H20445-1</i>	<del><i>SW-W-1</i></del>	<i>C1</i>			<input checked="" type="checkbox"/>					<i>9/29/10</i>	<i>9:00</i>	<input checked="" type="checkbox"/>					
<i>2</i>	<del><i>SW-W-2</i></del>	<i>C1</i>			<input checked="" type="checkbox"/>					<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>					

PLEASE NOTE: Liability and Damages. Cardinal's liability and their's exclusive remedy for any claim arising whether caused in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims must be filed for resolution and any other cause whatsoever shall be deemed waived unless made or arising and received by Cardinal within 30 days after completion of the applicable analysis. This does not constitute an offer of insurance or any other financial product. Cardinal's business interruption, loss of use or loss of profits, incurred by client, its subsidiaries, affiliates or agents, shall be the responsibility of Cardinal. The liability of whether such claims should be covered by any of the above stated reasons or otherwise.

Relinquished By: <i>Don Green</i>	Date: <i>9/29/10</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>11:56</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: <i>9/29/10</i>	Received By: <i>John Jensen</i>	REMARKS: <i>441-0405 call Don w/ verbal's</i>	
	Time: <i>11:50</i>		<i>RUSH!</i>	
Delivered By: (Circle One)	Sampler - UPS - Bus - Other:	Sample Condition	CHECKED BY: <i>JH</i>	
		Cool Intact		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

FORM-006  
 Rev. 01.10

† Cardinal cannot accept verbal changes. Please fax written changes to 675-393-2476

*#26*



October 12, 2010

Cindy Crain

Ocotillo Environmental, LLC

P.O. Box 1816

Hobbs, NM 88241

RE: ORE IDA 14, FED #12

Enclosed are the results of analyses for samples received by the laboratory on 10/12/10 8:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

Ocotillo Environmental, LLC  
 Cindy Crain  
 P.O. Box 1816  
 Hobbs NM, 88241  
 Fax To: (432) 272-0304

Received: 10/12/2010  
 Reported: 10/12/2010  
 Project Name: ORE IDA 14, FED #12  
 Project Number: 3 IN. POLY LINE  
 Project Location: 10 MILES NE OF MALAGA, NM

Sampling Date: 10/11/2010  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: NE W - 2 (H021031-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	10/12/2010	ND	432	108	400	3.77	

**Sample ID: NW N (H021031-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/12/2010	ND	432	108	400	3.77	

**Sample ID: WW - N - 3 (H021031-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/12/2010	ND	432	108	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**CARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

PAGE 1 of 1

Company Name: <b>DEVON ENERGY</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																		
Project Manager: <b>CINDY CRAIN</b>		P.O. #:																				
Address: <b>2125 FRENCH DRIVE, P.O. Box 1816</b>		Company: <b>Ocotillo</b>																				
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>		Attn:																				
Phone #: <b>575-441-7244</b> Fax #:		Address:																				
Project #: <b>3 Poly Line</b> Project Owner: <b>DEVON</b>		City:																				
Project Name: <b>ORE Ida 14, FED. #12</b>		State: Zip:																				
Project Location: <b>10 MILES NE OF MALAGA, N.M.</b>		Phone #:																				
Sampler Name:		Fax #:																				
Lab I.D.	Sample I.D.	CIRAB OR (COMP. #) CONTAINERS	MATRIX					PRESERV.		SAMPLING		CL										
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER		DATE	TIME								
<b>H21031-1</b>	<b>NEW-2</b>	<b>C</b>	<b>1</b>	<b>/</b>	<b>/</b>	<b>/</b>				<b>10/11/10</b>	<b>14:00</b>	<b>✓</b>										
<b>2</b>	<b>NW-N</b>	<b>C</b>	<b>1</b>	<b>/</b>	<b>/</b>	<b>/</b>				<b>"</b>	<b>"</b>	<b>✓</b>										
<b>3</b>	<b>NW-N-3</b>	<b>C</b>	<b>1</b>	<b>/</b>	<b>/</b>	<b>/</b>				<b>"</b>	<b>"</b>	<b>✓</b>										

PLEASE NOTE: Liability and Damages: Cardinal's supply and shall's on-site remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. Cardinal's liability for negligence and any other claims whatsoever shall be defined, waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. Cardinal shall not be liable for consequential damages, including without limitation, business interruptions, loss of data, or loss of profits, incurred by client, its subsidiaries or affiliates, or any third party, arising from the performance of services hereunder by Cardinal. RELEASE OF LIABILITY: This chain of custody is deemed to be a release of liability for any and all claims, damages, or losses, whether known or unknown, arising from the use of this form, whether or not such claims, damages, or losses are caused in whole or in part by the negligence of Cardinal Laboratories, Inc. or its subsidiaries or affiliates.

Relinquished By: <b>Don Green</b>	Date: <b>10/13/10</b>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: <b>8:30</b>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Relinquished By:	Date: <b>10/12/10</b>	Received By: <b>Jodi Hanson</b>	REMARKS: <b>441-0405 DON</b>
	Time: <b>5:30</b>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <b>JH</b>	
Sampler - UPS - Bus - Other:	Cool Intact: <b>22c</b>	(Initials)	<b>Rush</b>
	<input type="checkbox"/> Yes <input type="checkbox"/> No		

FORM-006  
 Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

#26

October 13, 2010

Cindy Crain

Ocotillo Environmental, LLC

P.O. Box 1816

Hobbs, NM 88241

RE: ORE IDA 14, FED #12

Enclosed are the results of analyses for samples received by the laboratory on 10/13/10 13:18.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

Ocotillo Environmental, LLC  
 Cindy Crain  
 P.O. Box 1816  
 Hobbs NM, 88241  
 Fax To: (432) 272-0304

Received:	10/13/2010	Sampling Date:	10/13/2010
Reported:	10/13/2010	Sampling Type:	Soil
Project Name:	ORE IDA 14, FED #12	Sampling Condition:	** (See Notes)
Project Number:	none given	Sample Received By:	Jodi Henson
Project Location:	10 MILES NE OF MALAGA, NM		

**Sample ID: NE-W-3 (H021047-01)**

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/13/2010	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

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- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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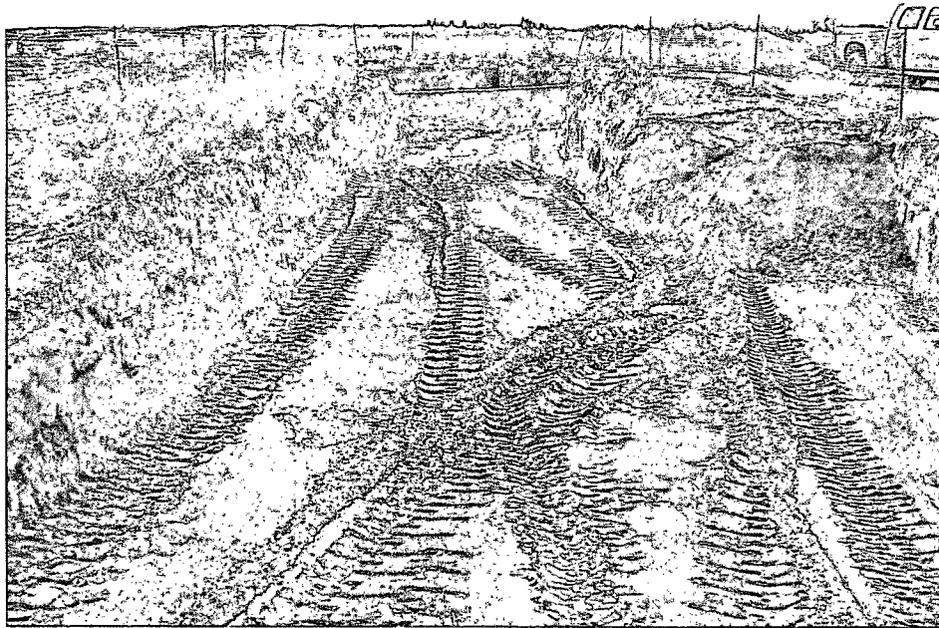
Celey D. Keene, Lab Director/Quality Manager



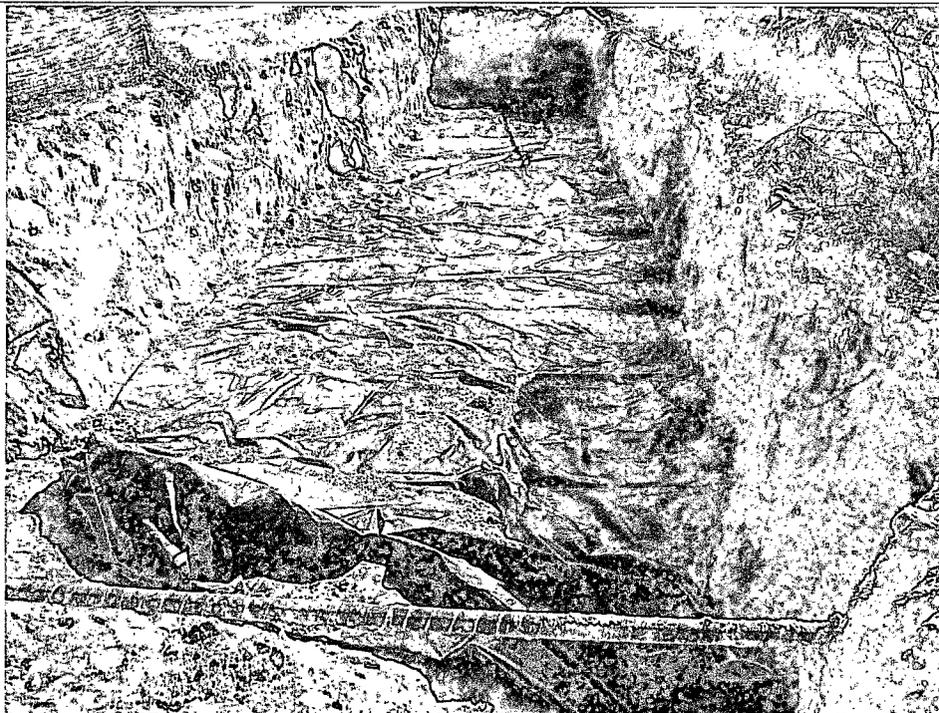


**APPENDIX B**  
**PHOTOGRAPHS**

**DEVON ENERGY, ORE IDA 14 FEDERAL #12**

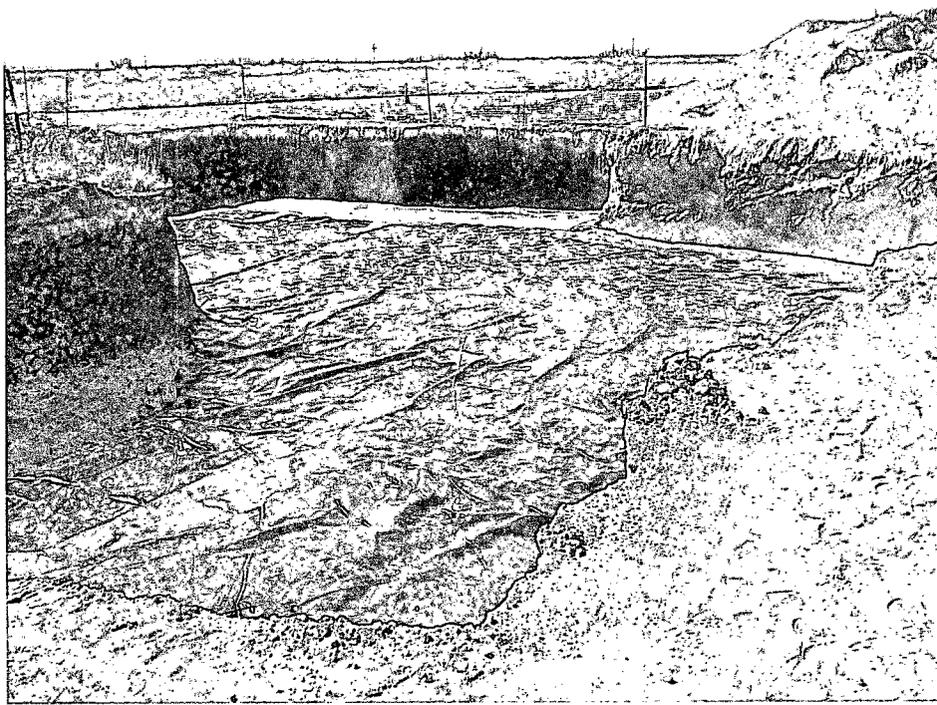


**1. View to east of excavation prior to lining.**



**2. View to east of excavation with liner.**

**DEVON ENERGY, ORE IDA 14 FEDERAL #12**

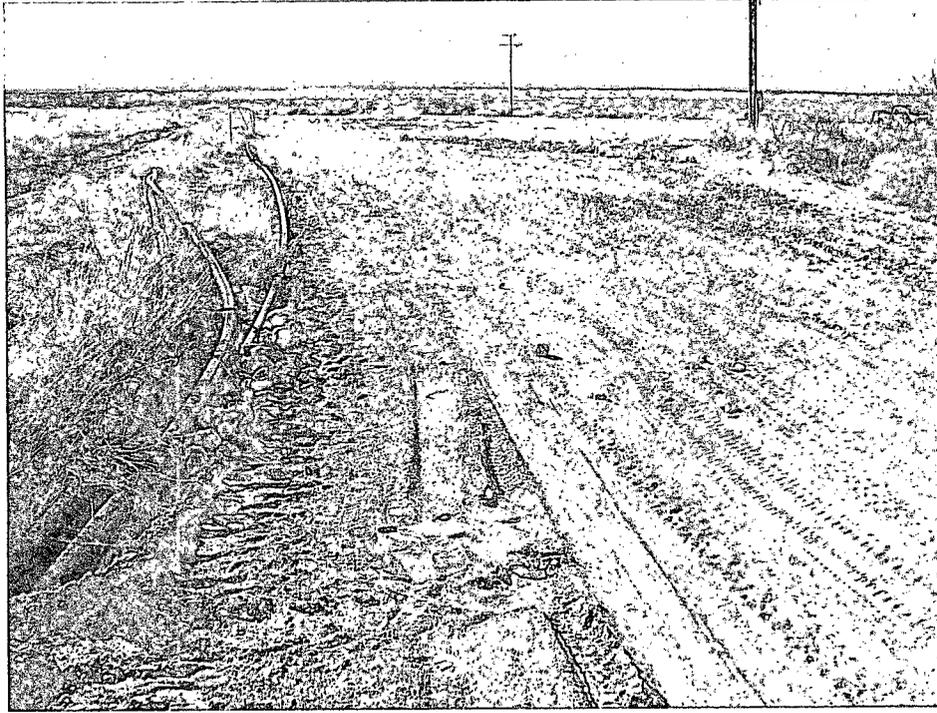


**3. View to south of excavation with liner.**

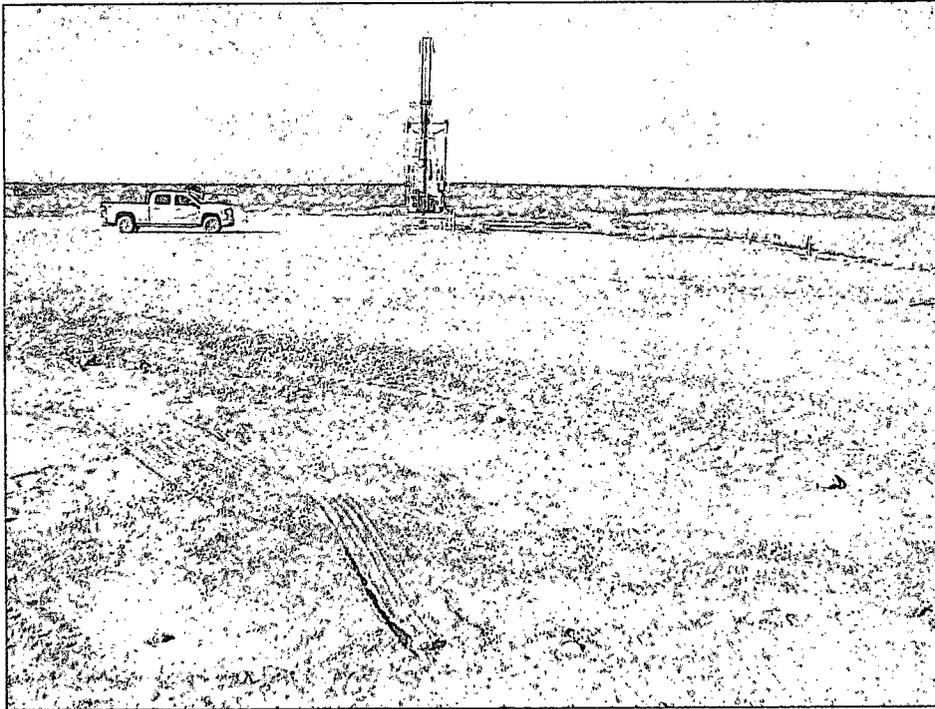


**4. View to east of northern portion of excavation.**

**DEVON ENERGY, ORE IDA 14 FEDERAL #12**



**5. View to east of southernmost backfilled spill area.**



**6. View to northeast of northernmost backfilled spill area.**

# **C141 DOCUMENTATION**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

**RECEIVED**  
**JUN -4 2010**  
**NMOCD ARTESIA**

Form C-141  
Revised October 10, 2003  
Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

30-015-29291

**Release Notification and Corrective Action**

NMLB 1016045970

**OPERATOR**

Initial Report  Final Report

Name of Company <b>Devon Energy</b> 6137	Contact <b>Jerry Matthews, Foreman</b>
Address <b>6488 Seven Rivers Hwy - P.O. Box 250</b>	Telephone No. <b>575-748-5234</b>
Facility Name <b>Ore Ida 14 Federal #12</b>	Facility Type

Surface Owner <b>BLM</b>	Mineral Owner	Lease No.
--------------------------	---------------	-----------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	<b>14</b>	<b>24S</b>	<b>29E</b>	<b>1880</b>	<b>FSL</b>	<b>2480</b>	<b>FWL</b>	<b>Eddy</b>

Latitude - **N 32.21516** \* Longitude - **103.94927**

**NATURE OF RELEASE**

Type of Release <b>Produced Water</b>	Volume of Release <b>15 bbls</b>	Volume Recovered <b>0</b>
Source of Release <b>Flowline</b>	Date and Hour of Occurrence <b>05/27/10 - 11:30 am</b>	Date and Hour of Discovery <b>05-27-10 - 11:30 am</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Jim Amos</b>	
By Whom? <b>Eric Bell, Lease Operator</b>	Date and Hour <b>05-27-10 - 3:50 pm</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
**On arrival at the Ore Ida 14 #12 the Lease Operator observed some guys doing some dirt work near our poly line; also observed standing water. Went to investigate where it was coming from and an employee from B&H informed Lease Operator that they discovered the leak and went into town to get a clamp and they tried clamping the line. Called and had gang come out and fix line**

Describe Area Affected and Cleanup Action Taken.\*  
**Took clamp off and repaired line and will teel, rake, and fertilize affective area on location.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <b>Mykol Horner</b>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Mykol Horner</b>	Approved by District Supervisor Signed By: <i>[Signature]</i>	
Title: <b>Field Tech 1</b>	Approval Date: <b>JUN 09 2010</b>	Expiration Date:
E-mail Address: <b>mykol.horner@dvn.com</b>	Conditions of Approval: <b>REMEDATION per OCD Rules and Guidelines. SUBMIT REMEDIATION PROPOSAL BY: June 30, 2010</b>	Attached <input type="checkbox"/>
Date:	Phone: <b>575-748-0160</b>	

\* Attach Additional Sheets If Necessary

NMLB 1016046346

2RP-417